## In the Claims

1-61 (caneeled).

- 62 (currently amended). An antibody that induces superagonistic signaling by a cell surface receptor, wherein said antibody binds to the extracellular portion of the human PD-1 receptor at a membrane proximal region and said antibody binds to an epitope comprising SEQ ID NO: 44, SEQ ID NO: 46, SEQ ID NO: 48, SEQ ID NO: 50, SEQ ID NO: 52, SEQ ID NO: 54, SEQ ID NO: 56 or SEQ ID NO: 61, wherein:
- a) said antibody does not bind only only bind to a peptide consisting of LAAFPEDRSQPGQDCR (SEQ ID NO: 61), the human PD-1 equivalent of the C'-D loop of human CD28; and
- b) said antibody induces superagonistic signaling of the PD-1 receptor by binding to a membrane proximal region of the human PD-1 receptor that is within 75 Å of a cell surface or wherein said antibody binds to a membrane proximal region of human PD-1 expressed on the surface of a cell and holds the cell surface within 200 Å of a substrate to which said antibody is immobilized.

63-65 (canceled).

- 66 (previously presented). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 44.
- 67 (withdrawn). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 46.
- 68 (withdrawn). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 48.

- 69 (withdrawn). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 50.
- 70 (withdrawn). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 52.
- 71 (withdrawn). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 54.
- 72 (withdrawn). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 56.
- 73 (previously presented). The antibody according to claim 62, wherein said antibody binds to an epitope comprising SEQ ID NO: 61.
- 74 (new). The antibody according to claim 62, wherein said antibody is a monoclonal antibody.
- 75 (new). The antibody according to claim 74, wherein said antibody is a humanized antibody.
- 76 (new). The antibody according to claim 74, wherein said antibody is a complementarity determining region (CDR)-grafted antibody.
- 77 (new). The antibody according to claim 74, wherein said antibody is a chimeric antibody.

- 78 (new). The antibody according to claim 62, wherein said antibody induces superagonistic signaling of the PD-1 receptor by binding to a membrane proximal region of the human PD-1 receptor that is within 60 Å of a cell surface.
- 79 (new). The antibody according to claim 62, wherein said antibody induces superagonistic signaling of the PD-1 receptor by binding to a membrane proximal region of the human PD-1 receptor that is within 50 Å of a cell surface.
- 80 (new). The antibody according to claim 62, wherein said antibody induces superagonistic signaling of the PD-1 receptor by binding to a membrane proximal region of the human PD-1 receptor that is within 40 Å of a cell surface.
- 81 (new). The antibody according to claim 62, wherein said antibody binds to a membrane proximal region of human PD-1 expressed on the surface of a cell and holds the cell surface within 180 Å of a substrate to which said antibody is immobilized.
- 82 (new). The antibody according to claim 62, wherein said antibody binds to a membrane proximal region of human PD-1 expressed on the surface of a cell and holds the cell surface within 150 Å of a substrate to which said antibody is immobilized.
- 83 (new). The antibody according to claim 62, wherein said antibody binds to a membrane proximal region of human PD-1 expressed on the surface of a cell and holds the cell surface within 120 Å of a substrate to which said antibody is immobilized.